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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/660,842	09/12/2003	Philip J. Pietraski	I-2-0407.1US	7867
²⁴³⁷⁴ VOLPE AND F	7590 04/27/200 KOENIG, P.C.	EXAMINER		
DEPT. ICC	7.4. CV VYTTV 4.600	TRAN, KHAI		
UNITED PLAZA, SUITE 1600 30 SOUTH 17TH STREET PHILADELPHIA, PA 19103			ART UNIT	PAPER NUMBER
			2611	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		04/27/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

SK

	Application No.	Applicant(s)			
Office Action Comments	10/660,842	PIETRASKI ET AL.			
Office Action Summary	Examiner	Art Unit			
	KHAI TRAN	2611			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 12 Se	eptember 2003.				
	action is non-final.				
3) Since this application is in condition for allowan	ce except for formal matters, pro	secution as to the merits is			
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.			
Disposition of Claims					
4) Claim(s) 1-22 is/are pending in the application.	, ·				
4a) Of the above claim(s) is/are withdraw	n from consideration.				
5) Claim(s) <u>9-13 and 20-22</u> is/are allowed.					
6)⊠ Claim(s) <u>1-4,14 and 15</u> is/are rejected.					
7) Claim(s) <u>5-8 and 16-19</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers		·			
<u> </u>					
9) The specification is objected to by the Examiner.10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1. Certified copies of the priority documents	have been received				
		on No			
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892) '4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 4 sheets. 5) Notice of Informal Patent Application 6) Other:					
0)					

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. Claims 1-2 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 1, line 10, the term "the threshold" lacks antecedent basis.

Claim 2 is rejected by virtue of their dependency.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-2 are rejected under 35 U.S.C. 102(e) as being anticipated by Demir et al (US 2005/0271177 A1).

The applied reference has a common assignee with the instant application.

Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in

the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Regarding claim 1, Demir et al disclose a cell search as shown in Figure 3, comprising: a splitter (19) for receiving received signal samples, and outputting a plurality of samples sets; N circuits (hierarchal Golay correlators 21, 22) for receiving respective ones of the samples sets and providing respective absolute value outputs corresponding to a primary synchronization code correlation to each sample set; N circuits for providing accumulated values corresponding to the respective absolute value output (see [0030], and [0031]); N circuits for dividing the accumulated values with an estimated noise value, and providing ratios of the accumulated values to the threshold ([0037]).

Regarding claim 2, Demir et al disclose wherein a value of N is two and the samples sets and an even and odd sample set ([0027]).

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 3-4, 14-15 are rejected under 35 U.S.C. 102(e) as being anticipated by Michel et al (U.S. Pat. 7,062,002).

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Regarding claims 3-4, Michel et al disclose a code correlator for correlating a received signal with a primary synchronization code; and an auxiliary code correlator having a substantially similar length as the code correlator for correlating the received signal with a code having a low cross correlation with the primary synchronization code (col. 15, line 60 to col. 16, line 30); a scaling circuit for scaling an output of the correlation with the primary synchronization code by an output of the auxiliary code correlator (col. 15, lines 3-6).

Claims 14-15 are similar to claims 3-4. Therefore, claims 14-15 are rejected under a similar rationale.

Allowable Subject Matter

- 6. Claims 9-11, 12-13, 20-22 are allowed.
- 7. Claims 5-8, 16-19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. The following is a statement of reasons for the indication of allowable subject matter: none of the prior art discloses or suggests that a wireless transmit /receive unit for performing cell search comprising: a circuit for a circuit for functionally dividing the accumulated result with the estimated noise by: determining an index of the accumulated result indicating a most significant bit; determining an index of the estimated noise indicating a most significant bit; subtracting the estimated noise index

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from the accumulated result index; and using a result of the subtraction to determine a division of the accumulated result by the noise estimate.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Lewis (US 2003/0231705 A1) discloses digital correlators.

Demir et al (U.S. Pat. 6,804,315) disclose a method for establishing a communication link.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to KHAI TRAN whose telephone number is (571) 272-3019. The examiner can normally be reached on 7:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JAY PATEL can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

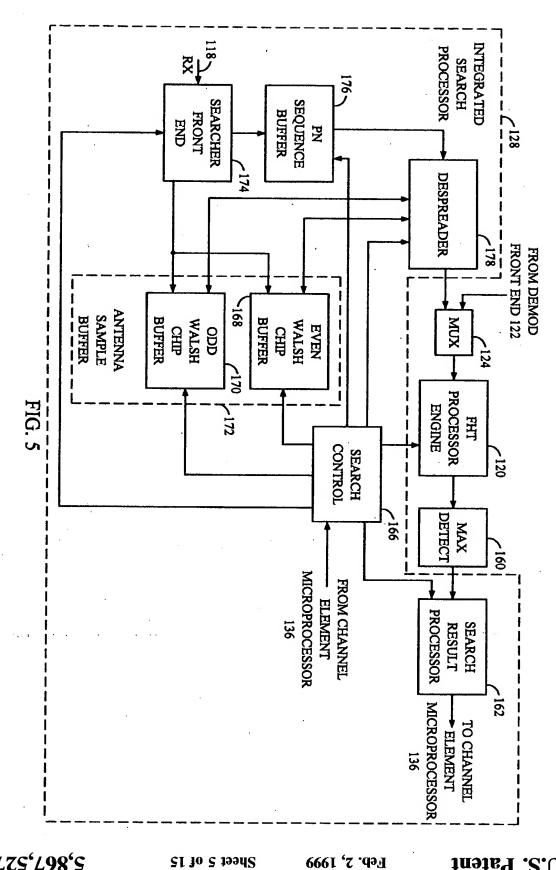
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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Whyman the KHAI TRAN Primary Examiner

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KT April 25, 2007



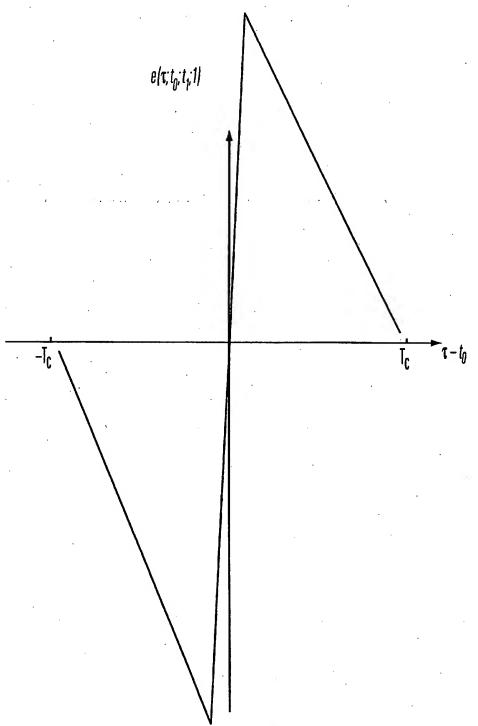


FIG. 8B

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Feb. 29, 2000

6,031,882

FIG. 9A